INDEX OF AUTHORS AND PAPERS

PHYSICA B

Aarts, J., De Boer, F.R. and MacLaughlin, D.E., ^{29}Si nuclear magnetic resonance and relaxation in the paramagnetic state of $CeCu_2Si_2$ 121B (1983) 162

Bangwei, Z., Application of Miedema's coordinates to the formation of binary amorphous alloys 121B (1983) 405
Bannink, G., see Van Beelen, H. 121B (1983) 30
Bernier, M.E.R. and Guerrier, G., High frequency NMR in bcc solid ^3He 121B (1983) 202
Block, R., see Bominaar, E.L. 121B (1983) 109
Bominaar, E.L. and Block, R., Indirect exchange interaction between two doubly bridged paramagnetic atoms. A coupled-cluster model study 121B (1983) 109
Boudewijn, P.R., see Hoekstra, H.J.W.M. 121B (1983) 62
Brom, H.B., see Veenendaal, E.J. 121B (1983) 1
Buschow, K.H.J., see De Vries, J.W.C. 121B (1983) 100

Cade, N.A., Correlation effects in doped organic semiconductors 121B (1983) 55
Crama, W.J. and Maaskant, W.J.A., On the cooperative Jahn–Teller effect in ternary chromium and copper halides 121B (1983) 219

De Boer, F.R., see Aarts, J. 121B (1983) 162
De Vries, J.W.C., Thiel, R.C. and Buschow, K.H.J., ^{151}Eu isomer shifts and charge transfer in Eu-base intermetallic compounds 121B (1983) 100

Emid, S. and Smidt, J., On the intramolecular spin–lattice relaxation in reorienting three-spin 1/2 systems 121B (1983) 47

Groenier, H., see Hoekstra, H.J.W.M. 121B (1983) 62
Guerrier, G., see Bernier, M.E.R. 121B (1983) 202

Haas, C., see Hoekstra, H.J.W.M. 121B (1983) 62
Hidaka, M., Inoue, K., Yamada, I. and Walker, P.J., X-ray diffraction study of the crystal structures of K_2CuF_4 and $K_2Cu_xZn_{1-x}F_4$ 121B (1983) 343
Hoekstra, H.J.W.M., Boudewijn, P.R., Groenier, H. and Haas, C., Optical absorption and magnetic circular dichroism of MnI_2 121B (1983) 62
Hoogerbeets, R. and Van Duyneveldt, A.J., ESR fields as a function of temperature in the quasi one-dimensional Heisenberg $S = 1/2$ ferromagnets $[C_6H_{11}NH_3]CuCl_3$ and $[C_6H_{11}NH_3]CuBr_3$ *(Letter to the Editor)* 121B (1983) 233
Huiskamp, W.J., see Veenendaal, E.J. 121B (1983) 1

Inoue, K., see Hidaka, M. 121B (1983) 343

Jindal, R.P., see Van der Ziel, A. 121B (1983) 420

Kleinpenning, T.G.M., On $1/f$ noise and detectivity in reverse-biased pn-junction photodiodes 121B (1983) 81
Kostyrko, T., see Robaszkiewicz, S. 121B (1983) 134
Kumar, B. and Srivastava, R.K., Variational ground-state energy of liquid ^{4}He 121B (1983) 409

Maaskant, W.J.A., see Crama, W.J. 121B (1983) 219
MacLaughlin, D.E., see Aarts, J. 121B (1983) 162
Melamud, M., see Pinto, H. 121B (1983) 121
Milanović, V., Determination of the discrete "surface" energy level in semi-infinite superlattice structures 121B (1983) 181
Milanović, V. and Tjapkin, D., Self-consistent evaluation of nonuniform superlattice parameters by the harmonic method 121B (1983) 187
Misra, S.K., Evaluation of spin Hamiltonian parameters of electron-nuclear spin-coupled systems from EPR data by the method of least-squares fitting 121B (1983) 193
Moreh, R., see Pinto, H. 121B (1983) 121

Nagano, S., see Yamada, I. 121B (1983) 127
Nara, S., A note on some aspects of the disordered effect in the Mott–Hubbard transition 121B (1983) 169

O'Connell, R.F. and Wallace, G., Effect of a finite semiconductor substrate on the Faraday rotation and ellipticity in a metal-oxide–semiconductor system 121B (1983) 41

Pedersen, B., see Raaen, A.M. 121B (1983) 89
Pinto, H., Melamud, M., Shahal, O., Moreh, R. and Shaked, H., Structural properties of HNO_3–graphite intercalation compounds studied by neutron diffraction and high energy nuclear photon scattering 121B (1983) 121
Poulis, N. J., see Rutten, W.L.C. 121B (1983) 351

Raaen, A.M., Svare, I. and Pedersen, B., Magnetic couplings in Cs_2IrCl_6 and other iridium hexachlorides from NMR studies 121B (1983) 89
Raaen, A.M. and Svare, I., Critical indirect nuclear coupling in Rb_2IrCl_6 121B (1983) 95
Reynaud, F., Contribution to the solution of Heisenberg's model for phase transitions: the A2 → B2 disorder–order transition in binary alloys of AB stoichiometry 121B (1983) 389
Robaszkiewicz, S. and Kostyrko, T., Charge orderings and lattice distortions in complex TCNQ salts 121B (1983) 134
Rutten, W.L.C., Verstelle, J.C. and Poulis, N.J., Spin dynamics of two three-dimensional Heisenberg ferromagnets near T_c 121B (1983) 351

Shaked, H., see Pinto, H. 121B (1983) 121
Shahal, O., see Pinto, H. 121B (1983) 121
Shanker, J. and Sundaraj, R., Dielectric properties of alkali halides using Mott–Littleton polarization theory 121B (1983) 175
Shimoda, S., see Yamada, I. 121B (1983) 127
Smidt, J., see Emid, S. 121B (1983) 47
Speedy, R.J., The equation of state for the hard sphere fluid at high density. The glass transition 121B (1983) 153

Srivastava, R.K., see Kumar, B. 121B (1983) 409
Sundaraj, R., see Shanker, J. 121B (1983) 175
Svare, I., see Raaen, A.M. 121B (1983) 89
Svare, I., see Raaen, A.M. 121B (1983) 95

Thiel, R.C., see De Vries, J.W.C. 121B (1983) 100
Tjapkin, D., see Milanović, V. 121B (1983) 187

Van Beelen, H. and Bannink, G., Some phenomenological properties of helium films 121B (1983) 30
Van der Heijden, R.W. and Wyder, P., Far-infrared investigations of magnetoplasma effects in Bi in quantizing magnetic fields 121B (1983) 299
Van der Ziel, A., Infinite gain and oscillations in SIS microwave mixers 121B (1983) 53
Van der Ziel, A., Van Vliet, C.M., Zijlstra, R.J.J. and Jindal, R.P., $1/f$ noise in mobility fluctuations and the Boltzmann equation *(Letter to the Editor)* 121B (1983) 420
Van Duyneveldt, A.J., see Hoogerbeets, R. 121B (1983) 233
Van Vliet, C.M., see Van der Ziel, A. 121B (1983) 420
Veenendaal, E.J., Brom, H.B. and Huiskamp, W.J., Quadrupolar ordering in a non-magnetic cubic doublet system: Cs_2NaHoF_6 121B (1983) 1
Verstelle, J.C., see Rutten, W.L.C. 121B (1983) 351

Walker, P.J., see Hidaka, M. 121B (1983) 343
Wallace, G., see O'Connell, R.F. 121B (1983) 41
Wójcik, M., Estimation of applicability of the electrostatic model to calculate the crystal field parameters in garnets 121B (1983) 370
Wyder, P., see Van der Heijden, R.W. 121B (1983) 299

Yamada, I., Shimoda, S. and Nagano, S., EPR study of the randomly diluted two-dimensional Heisenberg ferromagnet $K_2Cu_xZn_{1-x}F_4$ 121B (1983) 127
Yamada, I., see Hidaka, M. 121B (1983) 343

Zijlstra, R.J.J., see Van der Ziel, A. 121B (1983) 420

PHYSICA C

Beijerinck, H.C.W., Kaashoek, G.H., Beijers, J.P.M. and Verheijen, M.J., Non-Maxwellian velocity distributions in the transition region of supersonic expansions of the noble gases He, Ne and Ar 121C (1983) 425
Beijers, J.P.M., see Beijerinck, H.C.W. 121C (1983) 425
Borghi, C.A., Veefkind, A. and Wetzer, J.M., Effect of radiation and non-Maxwellian electron distribution on relaxation processes in an atmospheric cesium seeded argon plasma 121C (1983) 269

De Vlieger, G.J.N.E., Wijnen, H. and Dönszelmann, A., Extension of the measurements of the $np\ ^2P_{1/2,\,3/2}$ and $nd\ ^2D_{3/2,\,5/2}$ Rydberg series in neutral indium 121C (1983) 241
Dembinski, M., Kurzyna, J. and Szymanski, Z., Decay of optical discharge plasma 121C (1983) 441
Dönszelmann, A., see De Vlieger, G.J.N.E. 121C (1983) 241

Haider, S.A. and Singhal, R.P., Electron loss cross sections for He^+ and He incident on N_2 and O 121C (1983) 437

Kaashoek, G.H., see Beijerinck, H.C.W. 121C (1983) 425
Kurzyna, J., see Dembinski, M. 121C (1983) 441

Lambert, A.J.D., see Van Someren Greve, S.C. 121C (1983) 255

Murthy, N.S., see Prahllad, U.D. 121C (1983) 250

Nienhuis, G., see Schuller, F. 121C (1983) 281

Prahllad, U.D. and Murthy, N.S., Intensity measurements in the (A–X) band system of CO 121C (1983) 250

Schuller, F. and Nienhuis, G., Radiative transition rates of collisionally perturbed atoms in an intense monochromatic field 121C (1983) 281
Singhal, R.P., see Haider, S.A. 121C (1983) 437
Sluijter, F.W., see Van Someren Greve, S.C. 121C (1983) 255
Suarez, C.B., Improved constants, Franck–Condon factors and *r*-centroids including vibration–rotation interaction for the B–X transition of ScO 121C (1983) 295
Szymanski, Z., see Dembinski, M. 121C (1983) 441

Van Someren Greve, S.C., Lambert, A.J.D. and Sluijter, F.W., Near-resonant interaction of longitudinal plasma waves 121C (1983) 255
Veefkind, A., see Borghi, C.A. 121C (1983) 269
Verheijen, M.J., see Beijerinck, H.C.W. 121C (1983) 425

Wetzer, J.M., see Borghi, C.A. 121C (1983) 269
Wijnen, H., see De Vlieger, G.J.N.E. 121C (1983) 241

ANALYTIC SUBJECT INDEX

PHYSICA B

Absorption (see *Bi*) 121B (1983) 299

Alkali halides
- Dielectric properties of — using Mott–Littleton polarization theory - Shanker and Sundaraj 121B (1983) 175

$Al_xGa_{1-x}As$–GaAs superlattice
- Determination of the discrete "surface" energy level in semi-infinite superlattice structures - Milanović 121B (1983) 181

Amorphous alloys (see *Binary amorphous alloys*) 121B (1983) 405

Band structure
- Self-consistent evaluation of nonuniform superlattice parameters by the harmonic method - Milanović and Tjapkin 121B (1983) 187

Bi
- Far-infrared investigations of magnetoplasma effects in — in quantizing magnetic fields - Van der Heijden and Wyder 121B (1983) 299

Binary alloys
- Contribution to the solution of Heisenberg's model for phase transitions: the A2 → B2 disorder–order transition in — of AB stoichiometry - Reynaud 121B (1983) 389

Binary amorphous alloys
- Application of Miedema's coordinates to the formation of — - Bangwei 121B (1983) 405

Binding energy (see *Semiconductors, doped organic*) 121B (1983) 55

Boltzmann equation
- $1/f$ noise in mobility fluctuations and the — - Van der Ziel et al. *(Letter to the Editor)* 121B (1983) 420

$CeCu_2Si_2$
- ^{29}Si nuclear magnetic resonance and relaxation in the paramagnetic state of — - Aarts et al. 121B (1983) 162

CF_3COOAg single crystal
- On the intramolecular spin–lattice relaxation in reorienting three-spin 1/2 systems - Emid and Smidt 121B (1983) 47

Charge orderings
- — and lattice distortions in complex TCNQ salts - Robaszkiewicz and Kostyrko 121B (1983) 134

Charge transfer (see *Eu-base compounds*) 121B (1983) 100

Charge transfer (see *Semiconductors, doped organic*) 121B (1983) 55

$[C_6H_{11}NH_3]CuBr_3$
- ESR fields as a function of temperature in the quasi one-dimensional Heisenberg $S = 1/2$ ferromagnets $[C_6H_{11}NH_3]CuCl_3$ and — - Hoogerbeets and Van Duyneveldt *(Letter to the Editor)* 121B (1983) 233

$[C_6H_{11}NH_3]Cl_3$
- ESR fields as a function of temperature in the quasi one-dimensional Heisenberg $S = 1/2$ ferromagnets — and $[C_6H_{11}NH_3]CuBr_3$ - Hoogerbeets and Van Duyneveldt *(Letter to the Editor)* 121B (1983) 233

$C_{10}(HNO_3)$ (see HNO_3–graphite intercalation compounds) 121B (1983) 121
Configurational heat capacity (see *Hard sphere fluid*) 121B (1983) 153
Cooperative Jahn–Teller effect
- On the cooperative Jahn–Teller effect in ternary chromium and copper halides - Crama and Maaskant 121B (1983) 219

Cr^{2+} *halides* (see *Jahn–Teller effect, cooperative*) 121B (1983) 219
Critical indirect nuclear coupling (see Rb_2IrCl_6) 121B (1983) 95
Crystal field components (see *Garnets*) 121B (1983) 370
Crystal structure factors (see K_2CuF_4) 121B (1983) 343
^{133}Cs (see Cs_2IrCl_6) 121B (1983) 89
^{133}Cs (see Cs_2NaHoF_6) 121B (1983) 1
Cs_2IrCl_6
- Magnetic couplings in — and other iridium hexachlorides from NMR studies - Raaen et al. 121B (1983) 89

Cs_2NaHoF_6
- Quadrupolar ordering in a non-magnetic cubic doublet system: — Veenendaal et al. 121B (1983) 1

Cu^{2+} *halides* (see *Jahn–Teller effect, cooperative*) 121B (1983) 219
Curie–Weiss constant (see Cs_2IrCl_6) 121B (1983) 89
Cyclotron resonance (see *Bi*) 121B (1983) 299

d–d transitions (see MnI_2) 121B (1983) 62
Density of states (see *Hubbards model*) 121B (1983) 169
2d-Heisenberg ferromagnet (see K_2CuF_4) 121B (1983) 343
2d-Heisenberg ferromagnet (see $K_2Cu_xZn_{1-x}F_4$) 121B (1983) 127
Dielectric constant (see *Alkali halides*) 121B (1983) 175
Diodes (see *SIS microwave mixers*) 121B (1983) 53
Dipolar relaxation (see CF_3COOAg *single crystal*) 121B (1983) 47
Dipole strengths (see MnI_2) 121B (1983) 62
Discrete energy spectrum (see *Superlattice structures, semi-infinite*) 121B (1983) 181
Disorder–order transitions
- Contribution to the solution of Heisenberg's model for phase transitions: the A2 → B2 — in binary alloys of AB stoichiometry - Reynaud 121B (1983) 389

Electric field gradient (see *Garnets*) 121B (1983) 370
Electron–lattice coupling (see *TCNQ salts*) 121B (1983) 134
Electron–nuclear spin-coupled systems
- Evaluation of spin Hamiltonian parameters of — from EPR data by the method of least-squares fitting - Misra 121B (1983) 193

Electron–phonon coupling (see *TCNQ salts*) 121B (1983) 134
Ellipticity (see *Metal-oxide–semiconductor system*) 121B (1983) 41
EPR spectra (see $K_2Cu_xZn_{1-x}F_4$) 121B (1983) 127
Equation of state (see *Hard sphere fluid*) 121B (1983) 153
Errata
- Quadrupolar ordering in a Γ_3-doublet system studied by ^{165}Ho nuclear magnetic resonance: $Cs_2NaHoCl_6$ - Bongers et al. [Physica 115B (1982) 72] 121B (1983) 237

- Influence of surface characteristics of solids on the Kapitza resistance - Dharmadurai [Physica 115B (1983) 229] 121B (1983) 237

ESR fields (see *Heisenberg ferromagnet, quasi one-dimensional* $S = 1/2$) 121B (1983) 233

Eu (see *Eu-base compounds*) 121B (1983) 100

Eu-base compounds
- ^{151}Eu isomer shifts and charge transfer in Eu-base intermetallic compounds - De Vries et al. 121B (1983) 100

^{151}Eu isomer shifts (see *Eu-base compounds*) 121B (1983) 100

Exchange-coupling constant (see *Paramagnetic atoms*) 121B (1983) 109

^{19}F (see *Cs_2NaHoF_6*) 121B (1983) 1

Faraday rotation (see *Metal–oxide-semiconductor system*) 121B (1983) 41

Fermi surface (see *Bi*) 121B (1983) 299

1/f noise
- — in mobility fluctuations and the Boltzmann equation - Van der Ziel et al. *(Letter to the Editor)* 121B (1983) 420
- On — and detectivity in reverse-biased pn-junction photodiodes - Kleinpenning 121B (1983) 81

g-values (see *$K_2Cu_xZn_{1-x}F_4$*) 121B (1983) 127

Garnets
- Estimation of applicability of the electrostatic model to calculate the crystal field parameters in — - Wójcik 121B (1983) 370

Glass transition (see *Hard sphere fluid*) 121B (1983) 153

Graphite (see *HNO_3–graphite intercalation compounds*) 121B (1983) 121

Ground-state energy (see *Liquid ^4He*) 121B (1983) 409

Grüneisen parameter (see *Alkali halides*) 121B (1983) 175

Gyromagnetic ratio (see *Cs_2NaHoF_6*) 121B (1983) 1

Hard sphere fluid
- The equation of state for the — at high density. The glass transition - Speedy 121B (1983) 153

^4He (see *Liquid ^4He*) 121B (1983) 409

^3He, bcc solid
- High frequency NMR in bcc solid ^{3}He - Bernier and Guerrier 121B (1983) 202

^4He films
- Some phenomenological properties of helium films - Van Beelen and Bannink 121B (1983) 30

^3He–^4He phase separation (see *^3He, bcc solid*) 121B (1983) 202

Heisenberg exchange
- Contribution to the solution of Heisenberg's model for phase transitions: the A2 → B2 disorder–order transition in binary alloys of AB stoichiometry - Reynaud 121B (1983) 389

Heisenberg ferromagnet
- Spin dynamics of two three-dimensional — near T_c - Rutten et al. 121B (1983) 351

Heisenberg ferromagnet, quasi one-dimensional $S = 1/2$
- ESR fields as a function of temperature in the quasi one-dimensional Heisenberg $S = 1/2$ ferromagnets $C_6H_{11}NH_3$ and $C_6H_{11}NH_3$ $CuBr_3$ - Hoogerbeets and Van Duyneveldt *(Letter to the Editor)* 121B (1983) 233

High energy nuclear resonance
- Structural properties of HNO_3–graphite intercalation studied by neutron diffraction and high energy nuclear photon scattering - Pinto et al. 121B (1983) 121

HNO_3–graphite intercalation compounds
- Structural properties of — studied by neutron diffraction and high energy nuclear photon scattering - Pinto et al. 121B (1983) 121

^{165}Ho (see *Cs_2NaHoF_6*) 121B (1983) 1

Hubbards model
- A note on some aspects of the disordered effect in the Mott–Hubbard transition - Nara 121B (1983) 169

I–V characteristics (see *1/f noise*) 121B (1983) 81

Intercalation compounds (see *HNO_3–graphite intercalation compounds*) 121B (1983) 121

Isomer shift (see *Eu-base compounds*) 121B (1983) 100

Isothermal compressibility (see *Hard sphere fluid*) 121B (1983) 153

Jahn–Teller effect, cooperative
- On the cooperative Jahn–Teller effect in ternary chromium and copper halides - Crama and Maaskant 121B (1983) 219

K_2CuF_4
- X-ray diffraction study of the crystal structures of — and $K_2Cu_xZn_{1-x}F_4$ - Hidaka et al. 121B (1983) 343

K_2CuF_4 (see *$K_2Cu_xZn_{1-x}F_4$*) 121B (1983) 127

$K_2Cu_xZn_{1-x}F_4$
- X-ray diffraction study of the crystal structures of K_2CuF_4 and — - Hidaka et al. 121B (1983) 343

$K_2Cu_xZn_{1-x}F_4$
- EPR study of the random diluted two-dimensional Heisenberg ferromagnet — - Yamada et al. 121B (1983) 127

K_2IrCl_6
- Magnetic couplings in Cs_2IrCl_6 and other iridium hexachlorides from NMR studies - Raaen et al. 121B (1983) 89

Landau level (see *Bi*) 121B (1983) 299

Lattice distortions
- Charge orderings and — in complex TCNQ salts - Robaszkiewicz and Kostyrko 121B (1983) 134

Least-squares fitting (see *Electron–nuclear spin-coupled systems*) 121B (1983) 193

Linewidth (see *$K_2Cu_xZn_{1-x}F_4$*) 121B (1983) 127

Linewidth (see *Rb_2IrCl_6*) 121B (1983) 95

Liquid ^4He
- Variational ground-state energy of — - Kumar and Srivastava 121B (1983) 409

Magnetic circular dichroism (see *MnI_2*) 121B (1983) 62

Magnetic coupling (see *Rb_2IrCl_6*) 121B (1983) 95

Magnetic couplings (see *Cs_2IrCl_6*) 121B (1983) 89

Magnetoplasma effects
- Far-infrared investigations of — in Bi in quantizing magnetic field - Van der Heijden and Wyder 121B (1983) 299

Metal-oxide–semiconductor system
– Effect of a finite semiconductor substrate on the Faraday rotation and ellipticity in a — - O'Connell and Wallace 121B (1983) 41
Miedema's coordinates (see *Binary amorphous alloys*) 121B (1983) 405
MnI_2
– Optical absorption and magnetic circular dichroism of — - Hoekstra et al. 121B (1983) 62
Mobility fluctuations (see *1/f noise*) 121B (1983) 420
Mössbauer spectroscopy (see *Eu-base compounds*) 121B (1983) 100
Mott–Littleton polarization theory (see *Alkali halides*) 121B (1983) 175
$Na_2Sc_2V_3O_{12}$ (see *Garnets*) 121B (1983) 370
Neutron diffraction (see HNO_3*–graphite intercalation compounds*) 121B (1983) 121
$(NH_4)_2CuBr_4 \cdot H_2O$ (see *Heisenberg ferromagnet*) 121B (1983) 351
$(NH_4)_2IrCl_6$
– Magnetic couplings in Cs_2IrCl_6 and other iridium hexachlorides from NMR studies - Raaen et al. 121B (1983) 89
NMR absorption (see Cs_2NaHoF_6) 121B (1983) 1
NMR-line shift (see Cs_2IrCl_6) 121B (1983) 89

O_2 (see *Polydiacetylene*) 121B (1983) 55
Optical absorption (see MnI_2) 121B (1983) 62
Optical mode frequency (see *Alkali halides*) 121B (1983) 175
Optical parameters (see *Garnets*) 121B (1983) 370
Oscillations (see *SIS microwave mixers*) 121B (1983) 53

p–n diodes
– On $1/f$ noise and detectivity in reverse-biased pn-junction photodiodes - Kleinpenning 121B (1983) 81
Paramagnetic atoms
– Indirect exchange interaction between two doubly bridged —. A coupled-cluster model study - Bominaar and Block 121B (1983) 109
Photo diodes (see *1/f noise*) 121B (1983) 81
Photon scattering (see HNO_3*–graphite intercalation compounds*) 121B (1983) 121
Polydiacetylene
– Correlation effects in doped organic semiconductors - Cade 121B (1983) 55
Potts model, three states
– On the cooperative Jahn–Teller effect in ternary chromium and copper halides - Crama and Maaskant 121B (1983) 219

Quadrupolar ordering (see Cs_2NaHoF_6) 121B (1983) 1

RAlG (R = Lu, Yb, Y, Dy, Gd) (see *Garnets*) 121B (1983) 370
Random atomic potentials (see *Hubbards model*) 121B (1983) 169
Random transfer integrals (see *Hubbards model*) 121B (1983) 169
^{87}Rb (see Rb_2IrCl_6) 121B (1983) 95
$Rb_2CuBr_4 \cdot H_2O$ (see *Heisenberg ferromagnet*) 121B (1983) 351
Rb_2IrCl_6
– Magnetic couplings in Cs_2IrCl_6 and other iridium hexachlorides from NMR studies - Raaen et al. 121B (1983) 89
– Critical indirect nuclear coupling in — - Raaen and Svare 121B (1983) 95

Semiconductor substrate (see *Metal-oxide–semiconductor system*) 121B (1983) 41
Semiconductors, doped organic
– Correlation effects in doped organic semiconductors - Cade 121B (1983) 55
Semimetals (see *Bi*) 121B (1983) 299
Shot noise (see *1/f noise*) 121B (1983) 81
^{29}Si NMR (see *$CeCu_2Si_2$*) 121B (1983) 162
SIS microwave mixers
– Infinite gain and oscillations in — - Van der Ziel 121B (1983) 53
Specific heat (see *Cs_2NaHoF_6*) 121B (1983) 1
Spectral density (see *1/f noise*) 121B (1983) 81
Spin fluctuation time (see *$CeCu_2Si_2$*) 121B (1983) 162
Spin Hamiltonian parameters (see *Electron–nuclear spin-coupled systems*) 121B (1983) 193
Spin–lattice relaxation time (see ^{3}He, bcc solid) 121B (1983) 202
Spin-dynamics (see *Heisenberg ferromagnet*) 121B (1983) 351
Spin–lattice relaxation (see *CF_3COOAg single crystal*) 121B (1983) 47
Superexchange (see *Paramagnetic atoms*) 121B (1983) 109
Superfluidity (see *^{4}He films*) 121B (1983) 30
Superlattice parameter
– Self-consistent evaluation of nonuniform — by the harmonic method - Milanović and Tjapkin 121B (1983) 187
Superlattice structures, semi-infinite
– Determination of the discrete "surface" energy level in semi-infinite superlattice structures – Milanović 121B (1983) 181
Superface levels (see *Superlattice structures, semi-infinite*) 121B (1983) 181
Susceptibility (see *$CeCu_2Si_2$*) 121B (1983) 162
Susceptibility (see *Heisenberg ferromagnet*) 121B (1983) 351

TCNQ salts
– Charge orderings and lattice distortions in complex — - Robaszkiewicz and Kostyrko 121B (1983) 134
Third-sound (see *^{4}He films*) 121B (1983) 30
Two-dimensional ordering (see *^{4}He films*) 121B (1983) 30

Van Vleck paramagnet (see *Cs_2NaHoF_6*) 121B (1983) 1

X-ray diffraction (see *K_2CuF_4*) 121B (1983) 343

YFeG (see *Garnets*) 121B (1983) 370
YGaG (see *Garnets*) 121B (1983) 370

Zeeman exchange relaxation (see *^{3}He, bcc solid*) 121B (1983) 202
Zeeman relaxation (see *CF_3COOAg single crystal*) 121B (1983) 47
$ZnSiF_6 \cdot 6H_2O$, Mn^{2+}-doped (see *Electron–nuclear spin-coupled systems*) 121B (1983) 193

PHYSICA C

Ar (see *Noble gases*) 121C (1983) 425
Argon plasma (see *Cs-seeded argon plasma*) 121C (1983) 269
Atom–perturber interaction
– Radiative transition rates of collisionally perturbed atoms in an intense

monochromatic field - Schuller and Nienhuis 121C (1983) 281
Atomic spectroscopy (see *Rydberg series, nd $^2D_{3/2,\,5/2}$ and np $^2P_{1/2,\,3/2}$*) 121C (1983) 241

B–X transition (see *ScO*) 121C (1983) 295
Band strength (see *CO (A–X) band system*) 121C (1983) 250
Beam profile (see *Nobles gases*) 121C (1983) 425

CO (A–X) band system
– Intensity measurements in the (A–X) band system of CO - Prahllad and Murthy 121C (1983) 250
CO (see *CO (A–X) band system*) 121C (1983) 250
Collisional cross sections
– Electron loss cross sections for He^+ and He incident on N_2 and O - Haider and Singhal 121C (1983) 437
Collisional relaxation operator (see *Transition rates*) 121C (1983) 281
Cs-seeded argon plasma
– Effect of radiation and non-Maxwellian electron distribution on relaxation processes in an atmospheric — - Borghi et al. 121C (1983) 269

Electron density (see *Optical discharge plasma*) 121C (1983) 441
Electron loss cross sections
– — for He^+ and He incident on N_2 and O - Haider and Singhal 121C (1983) 437

Fine structure splitting (see *Rydberg series, nd $^2D_{3/2,\,5/2}$ and np $^2P_{1/2,\,3/2}$*) 121C (1983) 241
Franck–Condon factors (see *ScO*) 121C (1983) 295

He
– Electron loss cross sections for He^+ and — incident on N_2 and O - Haider and Singhal 121C (1983) 437
He (see *Noble gases*) 121C (1983) 425

In (see *Rydberg series, nd $^2D_{3/2,\,5/2}$ and np $^2P_{1/2,\,3/2}$*) 121C (1983) 241

Kurtosis parameter (see *Noble gases*) 121C (1983) 425

Longitudinal plasma waves
– Near-resonant interaction of — - Van Someren Greve et al. 121C (1983) 255

MHD generator plasma (see *Cs-seeded argon plasma*) 121C (1983) 269
Molecular spectroscopy (see *CO (A–X) band system*) 121C (1983) 250
Molecular spectroscopy (see *ScO*) 121C (1983) 295
Monochromatic radiation field
– Radiative transition rates of collisionally perturbed atoms in an intense monochromatic field - Schuller and Nienhuis 121C (1983) 281

N_2 (see *He*) 121C (1983) 437
Ne (see *Noble gases*) 121C (1983) 425

Noble gases
– Non-Maxwellian velocity distributions in the transition region of supersonic expansions of the — He, Ne and Ar - Beijerinck et al. 121C (1983) 425

Non-linear interaction in plasma's
- Near-resonant interaction of longitudinal plasma waves - Van Someren Greve et al. 121C (1983) 255

O (see *He*) 121C (1983) 437
Optical discharge plasma
- Decay of — - Dembinski et al. 121C (1983) 441

Plasma, cesium seeded argon (see *Cs-seeded argon plasma*) 121C (1983) 269
Plasma temperature (see *Optical discharge plasma*) 121C (1983) 441
Plasma waves
- Near-resonant interaction of longitudinal — - Van Someren Greve et al. 121C (1983) 255

r-centroids (see *ScO*) 121C (1983) 295
Rydberg series, nd $^2D_{3/2,\,5/2}$ *and np* $^2P_{1/2,\,3/2}$
- Extension of the measurements of the *n*p $^2P_{1/2,\,3/2}$ and *n*d $^2D_{3/2,\,5/2}$ Rydberg series in neutral indium - De Vlieger et al. 121C (1983) 241

ScO
- Improved constants, Franck–Condon factors and *r*-centroids including vibration–rotation interaction for the B–X transition of — - Suárez 121C (1983) 295
Supersonic expansion (see *Noble gases*) 121C (1983) 425

Transition rates
- Radiative — of collisionally perturbed atoms in an intense monochromatic field - Schuller and Nienhuis 121C (1983) 281

Velocity distributions, non-Maxwellian
- Non-Maxwellian velocity distributions in the transition region of supersonic expansions of the noble gases He, Ne and Ar - Beijerinck et al. 121C (1983) 425
Vibrational temperature (see *CO (A–X) band system*) 121C (1983) 250